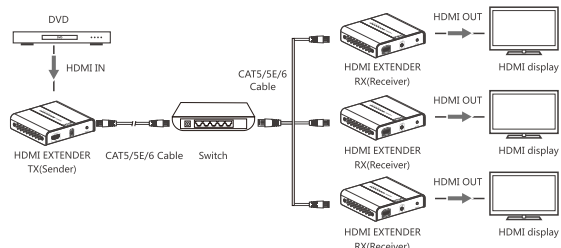


- 2) One-to-many Connection: by using network router/switch , one sender to several receivers, realize extender and splitter function.



FAQ

- Q:** TV display "Waiting for connection" on the right corner?
A: Please check if the power supply of TX (Sender) and switcher (if used) is connected, and make sure all the cables connected well.
- Q:** TV display "Please check the TX input signal" ?
A: 1) please check if there is a HDMI signal input of TX.
 2) Try to connect the signal source directly to display device to see if there is signal output from source device or change the signal source, HDMI wire and try again.
- Q:** When playing 4Kx2K source, screen is black without any content?
A: Please check and make sure both the display and HDMI cable compliance with HDMI 2.0.
 (Input cable length supported $\leq 5m(AWG24)$)
- Q:** Display is not fluent, not stable?
A: 1) Please check the cable length between the TX to switch, the switch to the RX and the connection between each level is within the

required range.

- 2) Press the "reset" button on the TX/RX front panel, reset and reconnect.

Specification

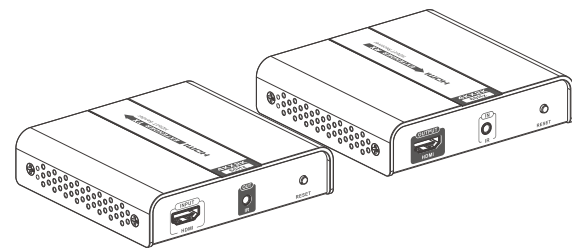
Items	Specification		
Power Supply	Voltage/Current	DC5V/3A	
	Power consumption	TX: < 8W RX: < 10W	
HDMI Performance And Interface	HDMI compliance	HDMI2.0	
	HDCP compliance	HDCP2.2	
	HDMI input resolution supported	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4Kx2K @24/25/30/60Hz	
	HDMI output resolution supported	1080p@60Hz, 4Kx2K@30/60Hz	
	Audio formats supported	L/R stereo audio	
	Maximum transfer rate	18Gbps	
	Input and output TMDS signal	0.7 ~ 1.5Vp-p(TMDS)	
	Input and output DDC signal	5Vp-p(TTL)	
	Transmission length	CAT5	80m
		CAT5E	100m
CAT6		120m	
Input cable length supported	$\leq 5m(AWG24)$		
Output cable length supported	$\leq 5m(AWG24)$		
IR performance and interface	IR remote control	Supports IR passback with 20~60KHz frequency	
HdBitT	Transfer method	Over UTP/STP CAT5/5e/6	
	Transmission distance	120 Meters	
	Connector	RJ45	
	Delay	≤ 200 ms	

Protection Level	Electrostatic protection of the whole machine	1a Contact discharge level 3
		1b Air discharge level 3
		Standard: IEC61000-4-2
Operating Environment	Working temperature	0 ~ 50°C
	Storage temperature	-10 ~ 70°C
	Humidity (no condensation)	0 ~ 90%
Body Properties	Dimension	103(L) x 97.5(W) x 24.8(H)mm
	Material	Iron alloy material + crystal panel
	Finishing	Grit blast
	Color	Black
	Weight	TX:240g, RX:240g
Reliability	Mean time between failures (MTBF)	> 30000 Hours

HdBitT HDMI Extender

User manual

4Kx2K
60Hz



Disclaimer

The product name and brand name may be registered trademark of related manufacturers. TM and ® may be omitted on the user manual. The pictures on the user manual are just for reference, and there may be some slight difference with the real products.
 We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

Thank you for purchasing this product. For optimum performance and safety, please read the instructions carefully and keep the manual for future reference.

• Important safety notice

Please read below safety instructions carefully before installation and operation:

- * Please pay attention to all the warnings and hints on this device.
- * Do not expose this unit to rain, moisture and liquid.
- * Do not put any stuff into the device.
- * Do not repair or open this device without professional people's guidance.
- * Make sure good ventilation openings to avoid product overheating damage.
- * Shut off power and make sure environment is safe before installation.
- * Do not plug-in/out the network cables and IR cables when it is in using to avoid cables damage.
- * Use DC5V/3A only. Make sure the specification matched if using 3rd party DC adapters.

• Introduction

HDbitT HDMI extender includes a transmitter unit(TX) and a receiver unit(RX). It applied advanced HDbitT technology, the resolution supported is up to 4Kx2K@60Hz ultra HD. It supports one to one and one to many connections, the transmission distance is up to 120 meters. With IR passback function, it is very easy to control media playback of the signal source device at the display location.

• Features

1. HDMI 2.0 and HDCP2.2 compliant

2. Extend HDMI signal over a single CAT5/6
3. Long transmission distance up to 120 meters (high quality CAT6 can up to 150m)
4. Resolution supported is up to 4Kx2K@60Hz ultra HD
5. IR passback with 20-60KHz wide frequency to control source device from receiver side easily
6. Support one to one and one to many configuration
7. Interconnect with other HDbitT VGA/SDI/DVI transmitter via CAT5/6

• Package Contents



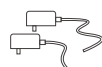
HDMI EXTENDER sender TX x1pcs



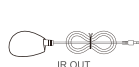
HDMI EXTENDER receiver Rx x1pcs



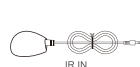
User Manual x1pcs



DC5V/3A x2pcs



IR OUT
IR blaster extension cable*1pcs



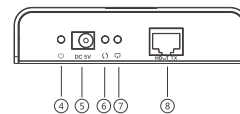
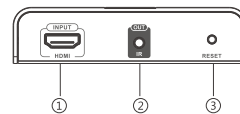
IR IN
IR receiver extension cable*1pcs

• Installation Requirements

1. HDMI source device (computer graphics card, DVD,PS3, HD monitoring equipment etc).
2. HDMI display device like SDTV, HDTV, projector with HDMI port.
3. Network cables : UTP/STP Cat5e/6 network cables, which following the standard of IEEE-568B.
Transmission length: CAT5 80m/CAT5E 100m/CAT6 120m.

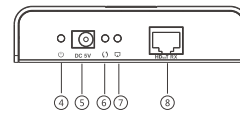
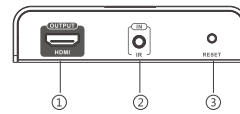
• Panel Description

1. HDMI EXTENDER TX



① HDMI signal input	Connect with the source device
② IR signal output	Connect with IR blaster extension cable
③ Reset button	Press to restart the unit
④ Power indicator	LED indicator turn on when power on
⑤ Power input	Connect with DC5V/3A power adapter
⑥ Data transmission indicator	Blink when data is transmitted
⑦ Connection indicator	LED indicator turn on when the transmitter connects to the receiver, otherwise it is off
⑧ HDbitT signal output	Output HDMI signal

2. HDMI EXTENDER RX



① HDMI signal output	Connect with the display device
② IR signal input	Connect with IR receiver extension cable

③ Reset button	Press to restart the unit
④ Power indicator	LED indicator turn on when power on
⑤ Power input	Connect when DC5V/3A power adapter
⑥ Data transmission indicator	Blink with data is transmitted
⑦ Connection indicator	LED indicator turn on when the transmitter connects with the receiver, otherwise it is off
⑧ HDbitT signal input	Input encoded HDMI signal

• Installation Procedures

1. How to make a Cat5e/6 network cable

Follow the standard of IEEE-568B:

- | | | |
|-----------------|---------------|----------------|
| 1- Orange/white | 4- Blue | 7- Brown/white |
| 2- Orange | 5- Blue/white | 8- Brown |
| 3- Green/white | 6- Green | |



2. Connections

- 1) One to one connection: up to 120 meters transmission distance over single CAT6 (High quality cable can reach 150 meters) .

